

## **GENERAL EDUCATION AND TRAINING CERTIFICATE**

## **NQF LEVEL 1**

## **ABET LEVEL 4 SUMMATIVE ASSESSMENT**

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| **LEARNING AREA** | **:** | **MATHEMATICS AND MATHEMATICAL SCIENCES** |
| **CODE** | **:** | **MMSC4** |
| **TOOL** | **:** | **ASSIGNMENT** |
| **TIME** | **:** | **TWO WEEKS** |
| **MARKS** | **:** | **50** |

**This assessment tool consists of 5 pages.**

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| **INSTRUCTION AND INFORMATION FOR THE TEACHER** |  |  |

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| 1. | This assignment is based on Unit Standards ID 7452 ; ID7448 and ID7453 can be given while the Unit Standards title is taught. |  |  |

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| **QUESTION 1** |  |  |

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| 1.1 | 1.1.1 | |  |  | | --- | --- | | Workers per class | Total amount | | 5 | 400225 = 175 | | 11 | 610 225 = 385 | | 15 | 820225 = 595 | | 3 | 330= 105 | | 25 | 1 100225 = 875 |   when we divide money left after subtracting the fixed price by the number of workers in a class, we get R35  Kate charged R35 for each worker per class | Correct answer | (3) |

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|  | 1.1.2 |  | Correct formula | (2) |

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|  | 1.1.3 |  | Correct substitution  Correct transposing  Correct answer | (3) |

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| 1.2 | 1.2.1 | |  |  |  |  | | --- | --- | --- | --- | |  | speed | distance | time | | Runner 1 | 11 km/h | 11 |  | | Runner 2 | 9 km/h | 9 |  | | Correct answer | (4) |

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|  | 1.2.2 | Time is the same as they started at the same time  At 9 o 'clock they will be 70 km apart |  | (3) |
|  | | | | **[15]** |

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| **QUESTION 2** |  |  |

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| 2.1 | 2.1.1 | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Loaves of Bread (B) | 0 | 1 | 2 | 3 | 5 | 7 | 30 | | Total amount of expenses (R) | 500 | 505 | 510 | 515 | 525 | 535 | 650 | | Correct Values | (4) |

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|  | 2.1.2 | Loaves of Bread (B) is an independent variable | Correct answer | (1) |

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|  | 2.1.3 | C:\Users\Shilubana.J.EXAM\Pictures\My Scans\scan0005.jpg  1 mark for the labelling on the x-axis  1 mark for the labelling on the y-axis  1 mark for the relevant numbering of both axes  2 marks for plotting 4 correct points |  | (5) |

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| 2.2 | 2.2.1 | formula | Correct answer | (2) |

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|  | 2.2.2 | * The cost making loaves of bread * Mr Mchunu's bakery   Any relevant heading | Relevant heading | (1) |

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|  | 2.2.3 | 74 loaves | Correct calculation  Correct answer | (2) |
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| **QUESTION 3** |  |  |

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| 3.1 | 3.1.1 | Row 1 : 1 1  Row 2 : 3 2 3 4  Row 3 : 5 5 6 7 8 9  Row 4 : 7 10 11 12 13 14 15 16  Left = 1, 2, 5, 10  Right=1, 4, 9, 16  Row:🗸🗸 | Correct answer | (2) |

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|  | 3.1.2 | Last number in Row 7 | Correct formula  Correct answer | (2) |

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|  | 3.1.3 | Pattern :1; 3; 5; 7 | Method  Correct answer | (3) |

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|  | 3.1.4 |  | Correct substitution  Correct answer | (2) |

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| 3.2 | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  | 0 | 1 | 2 | |  |  |  | 1 | 3 | 5 | |  |  |

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|  | 3.2.1 | Description: C:\Users\makola.j\Desktop\scan0007.jpg  2 mark for correct plotting (show ALL plotted points)  1 mark for correct joining the points |  | (3) |

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|  | 3.2.2 | Increasing. The gradient m is positive. | Correct answer  Relevant justification | (2) |

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|  | 3.2.3 | For x-intercepts let  x-intercepts is (; 0)  y-intercepts is | Correct answer | (2) |

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|  | 3.3.1 |  |  | (1) |

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|  | 3.3.2 |  |  | (1) |

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|  | 3.3.3 |  |  | (2) |
|  |  |  |  | **[20]** |

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| **TOTAL:** |  | **50** |